

January 27, 1987

26-11 K-2632-01  
Shoal Creek Bridge south of Galena  
26-11 K-2810-01  
Culvert in Galena  
Potential highway construction  
Cherokee County

0737  
Roy

Site:	Cherokee
ID:	4512946-74/16
Week:	17.1
Other:	1-27-87

asp

MEMORANDUM TO: MARK T. ROBERTS, P.E.  
CHIEF, BUREAU OF DESIGN

SUBJECT: Meeting with representatives of the  
United States Environmental Protection Agency (EPA)

On January 22, 1987, representatives of the Kansas Department of Transportation (KDOT) met with EPA staff in the EPA offices in Kansas City, Kansas. The purpose of the meeting was to discuss a culvert project in the City of Galena (Project K-2810-01), a bridge project over Shoal Creek south of Galena (K-2632-01), and potential highway construction in Cherokee County that may result from the Governor's proposed highway program. An attendance list is attached.

Susan Ray (EPA 404 Section) opened the meeting and, after introductions, noted that, because of heavy metals in Cherokee County soils, EPA's Superfund personnel were directly involved in the area. EPA's 404 Section personnel use EPA's Superfund staff as consultants for technical assistance.

Alice Fuerst of EPA's Superfund group noted that Cherokee County had been divided into 6 sub-sites by the EPA Superfund staff. The Galena area had a variety of problems because of the presence of lead, zinc, and cadmium in the soils and water.

KDOT's George Dockery illustrated the construction procedures that would be used to replace the culvert in Galena. He observed that the approximately 3,500 cubic yards of fill needed would be obtained from a borrow area previously approved for the Spring River Bridge project (K-0178-01) at Riverton. The old concrete in the existing structure may be used for fill or to be placed in scour areas in the stream.

Mark T. Roberts of KDOT stated that the existing highway had been a country road in the last century when the existing culvert was built and that it was a very old structure. This indicated that it had taken considerable time for the stream to damage the structure.

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SUPERFUND RECORDS

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the stream had been sampled and that it was  
east and west of the culvert. A local swimming hole  
as "Blue Hole" was likewise contaminated. Superfund has no regulations  
to cover the stream.

KDOT's Al Stallard opened discussion on the proposed bridge on Shoal Creek  
south of Galena. He stated that samples were taken and analyzed and that  
all samples were beneath toxic levels. He will send relevant information  
to EPA.

Dee Kimbell questioned the feasibility of extensive channel work in the  
vicinity of Schummerhorn Park where several endangered species are found.

Jack Brubaker asked what lead contamination levels were used as guidelines.

Ed Skowronski replied that 500 parts per million (ppm) of lead was a upper  
limit guideline for residential areas and 1,000 ppm was a guideline for  
occupational areas. He provided recommendations for the culvert project  
in Galena (attached), and noted that construction workers should be warned  
of a potential problem. Five thousand to six thousand ppm lead contamination  
would be serious, but there should be no problems in areas that have not  
been mined.

Relative to construction of new highways through Cherokee County, EPA would  
be involved only in those areas where a U.S. Army Corps of Engineers' 404  
permit would be required. Susan Ray provided a list of items she would  
be interested in concerning future projects, as follows:

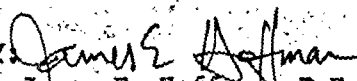
- Project location
- Project design information
- Design contact person
- Known construction methods to be used
- Materials to be moved from site
- Materials to be worked with on site
- Borrow area locations and limits, if known
- Stream characteristics such as depth, use of adjacent land,  
stream use (water supply, recreation)

After general discussion, the Kansas Geological Survey and U.S. Geological  
Survey were cited as prime sources of important information regarding Cherokee  
County.

In summary, Alice Fuerst had no objection to the culvert project in Galena  
and Ed Skowronski could foresee no related health impacts if his recommendations  
were followed. Generally, EPA has no objections to highway projects in  
southeast Cherokee County, but would like to evaluate each one as they  
are developed. Ms. Ray said the letter for the Galena project (K-2810-01)  
404 permit will be written during the first week of February 1987.

If you feel this summary is in error, please advise.

A. H. STALLARD, CHIEF,  
ENVIRONMENTAL SERVICES

BY:   
James E. Hoffman, P.E.  
Supervisor of Environmental  
Studies

AHS:JEH:ild

cc: Environmental Protection Agency, Att: Susan Ray  
Dee E. Kimbell, District Four Engineer